

Title (en)  
DYNAMIC PATH FOR END EFFECTOR CONTROL

Title (de)  
DYNAMISCHER WEG FÜR ENDEFFEKTORSTEUERUNG

Title (fr)  
CHEMIN DYNAMIQUE DESTINÉ À UNE COMMANDE D'EFFECTEUR TERMINAL

Publication  
**EP 3655831 A1 20200527 (EN)**

Application  
**EP 18834893 A 20180716**

Priority  
• AU 2017050739 W 20170717  
• AU 2018050734 W 20180716  
• AU 2016902787 A 20160715

Abstract (en)  
[origin: WO2018009985A1] Computer aided design software for designing a building or other structure of brick construction, where in addition to the usual three dimensional modelling and rendering typical of CAD software, tabular data describing the spatial location and orientation of each brick is provided, including information regarding which bricks are cut to length so as to be shortened, and where they are located along each course, and which bricks are machined, drilled or routed for services or other special fittings. Data pertaining to this is compiled in a database for access by control software to control a brick laying machine to build a building or other structure from bricks. The database may receive via interface with a scanner data being a measure of the elevation of the footings and/or concrete pad that has been constructed according to the building plan and for each brick of the first course, to determine how much material must be machined off the bottom of each brick so that when the first course is laid, the tops of the bricks of the first course are at the same level. This machining data is stored for each brick with the tabular data produced by computer aided design software, so that the control software can control the brick laying machine to machine and cut each brick as per the stored data, and convey each brick to the stored position on the footing, pad or previously laid course of bricks, with application of adhesive prior to positioning of the brick.

IPC 8 full level  
**G05B 19/19** (2006.01); **B25J 5/00** (2006.01); **B25J 9/16** (2006.01); **E04G 21/22** (2006.01)

CPC (source: EP US)  
**B25J 5/00** (2013.01 - US); **B25J 9/023** (2013.01 - US); **B25J 9/161** (2013.01 - US); **B25J 9/1612** (2013.01 - US); **B25J 9/162** (2013.01 - EP US); **B25J 9/1633** (2013.01 - US); **B25J 9/1635** (2013.01 - EP US); **B25J 9/1638** (2013.01 - EP US); **B25J 9/1651** (2013.01 - US); **B25J 9/1664** (2013.01 - EP US); **B25J 9/1674** (2013.01 - US); **B25J 9/1679** (2013.01 - US); **B25J 9/1684** (2013.01 - US); **B25J 9/1694** (2013.01 - US); **B25J 13/089** (2013.01 - US); **B25J 19/021** (2013.01 - US); **B25J 19/022** (2013.01 - US); **B28D 1/003** (2013.01 - US); **B28D 1/10** (2013.01 - US); **B28D 1/186** (2013.01 - US); **B28D 7/005** (2013.01 - US); **B28D 7/04** (2013.01 - US); **B60P 1/48** (2013.01 - US); **E04B 1/02** (2013.01 - US); **E04G 21/22** (2013.01 - EP US); **G05B 19/4097** (2013.01 - EP US); **G05B 19/416** (2013.01 - US); **G05B 19/41815** (2013.01 - EP); **G05B 19/4182** (2013.01 - EP); **G06F 16/00** (2019.01 - US); **G06F 16/1734** (2019.01 - EP US); **G06F 30/13** (2020.01 - EP US); **H04W 4/70** (2018.02 - EP); **B25J 9/1697** (2013.01 - US); **B60P 3/28** (2013.01 - US); **B66C 13/22** (2013.01 - US); **E04B 2/04** (2013.01 - US); **E04F 21/023** (2013.01 - US); **G01C 15/002** (2013.01 - US); **G01S 17/66** (2013.01 - EP US); **G05B 2219/35207** (2013.01 - US); **G05B 2219/39001** (2013.01 - US); **G05B 2219/39172** (2013.01 - EP); **G05B 2219/40257** (2013.01 - EP US); **G05B 2219/40298** (2013.01 - EP); **G05B 2219/40513** (2013.01 - EP); **G05B 2219/45086** (2013.01 - EP US); **G06F 2111/20** (2020.01 - EP US); **Y02B 10/30** (2013.01 - EP); **Y02P 90/02** (2015.11 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2018009985 A1 20180118**; AU 2017294796 A1 20190228; AU 2017294796 B2 20190530; AU 2017295316 A1 20190307; AU 2017295316 B2 20220908; AU 2017295317 A1 20190228; AU 2017295317 B2 20220707; AU 2017295317 C1 20221110; AU 2018303329 A1 20200123; AU 2018303329 B2 20240208; AU 2018303330 A1 20200123; AU 2018303330 B2 20230720; AU 2018303837 A1 20200123; AU 2018303838 A1 20200123; AU 2018303838 B2 20231207; AU 2018304730 A1 20200123; AU 2019222886 A1 20190919; AU 2019222886 B2 20210909; AU 2022275442 A1 20230105; BR 112019000728 A2 20190507; BR 112019000728 B1 20230328; BR 112019000730 A2 20190507; BR 112019000730 B1 20231003; CA 3030764 A1 20180118; CN 109715349 A 20190503; CN 109715349 B 20240503; CN 109716339 A 20190503; CN 109716339 B 20231124; CN 109790723 A 20190521; CN 109790723 B 20211231; CN 111051011 A 20200421; CN 111051011 B 20240109; CN 111051012 A 20200421; CN 111051012 B 20240202; CN 111051013 A 20200421; CN 111051013 B 20240312; CN 111052014 A 20200421; CN 111052014 B 20240220; CN 111065494 A 20200424; CN 111065494 B 20240315; EP 3484675 A1 20190522; EP 3484675 A4 20200325; EP 3485112 A1 20190522; EP 3485112 A4 20200401; EP 3485112 B1 20210825; EP 3494500 A1 20190612; EP 3494500 A4 20200923; EP 3655200 A1 20200527; EP 3655200 A4 20210414; EP 3655201 A1 20200527; EP 3655201 A4 20210421; EP 3655202 A1 20200527; EP 3655202 A4 20210421; EP 3655203 A1 20200527; EP 3655203 A4 20210414; EP 3655831 A1 20200527; EP 3655831 A4 20210421; ES 2899284 T3 20220310; JP 2019521872 A 20190808; JP 2019527310 A 20190926; JP 2019530107 A 20191017; JP 7014789 B2 20220201; JP 7048597 B2 20220405; JP 7061119 B2 20220427; SA 519400899 B1 20220823; US 10635758 B2 20200428; US 11106836 B2 20210831; US 11687686 B2 20230627; US 11842124 B2 20231212; US 12001761 B2 20240604; US 2019224846 A1 20190725; US 2019251210 A1 20190815; US 2019316369 A1 20191017; US 2020206923 A1 20200702; US 2020206924 A1 20200702; US 2020215688 A1 20200709; US 2020215692 A1 20200709; US 2020215693 A1 20200709; US 2020334390 A1 20201022; US 2022058300 A1 20220224; WO 2018009981 A1 20180118; WO 2018009986 A1 20180118; WO 2019014701 A1 20190124; WO 2019014702 A1 20190124; WO 2019014705 A1 20190124; WO 2019014706 A1 20190124; WO 2019014707 A1 20190124; ZA 201900745 B 20210630

DOCDB simple family (application)  
**AU 2017050738 W 20170717**; AU 2017050731 W 20170714; AU 2017050739 W 20170717; AU 2017294796 A 20170714; AU 2017295316 A 20170717; AU 2017295317 A 20170717; AU 2018050733 W 20180716; AU 2018050734 W 20180716; AU 2018050737 W 20180716; AU 2018050739 W 20180716; AU 2018050740 W 20180716; AU 2018303329 A 20180716; AU 2018303330 A 20180716; AU 2018303837 A 20180716; AU 2018303838 A 20180716; AU 2018304730 A 20180716; AU 2019222886 A 20190829; AU 2022275442 A 20221123; BR 112019000728 A 20170714; BR 112019000730 A 20170717;

CA 3030764 A 20170717; CN 201780056460 A 20170717; CN 201780056867 A 20170717; CN 201780057117 A 20170714;  
CN 201880057381 A 20180716; CN 201880057383 A 20180716; CN 201880057400 A 20180716; CN 201880057411 A 20180716;  
CN 201880057441 A 20180716; EP 17826692 A 20170714; EP 17826696 A 20170717; EP 17826697 A 20170717; EP 18834565 A 20180716;  
EP 18834673 A 20180716; EP 18834893 A 20180716; EP 18835737 A 20180716; EP 18835861 A 20180716; ES 17826692 T 20170714;  
JP 2019523146 A 20170714; JP 2019523147 A 20170717; JP 2019523148 A 20170717; SA 519400899 A 20190114;  
US 201716317772 A 20170717; US 201716317792 A 20170714; US 201716317800 A 20170717; US 201816631388 A 20180716;  
US 201816631404 A 20180716; US 201816631413 A 20180716; US 201816631420 A 20180716; US 201816631424 A 20180716;  
US 202016823596 A 20200319; US 202117382136 A 20210721; ZA 201900745 A 20190205